

CLAIMS

1. (Currently Amended) A method of queuing requests from one or more requestors to two or more destinations, the method comprising the steps of:

providing an age queue and a data queue;

receiving one or more requests for one or more of the two or more destinations;

determining whether ~~a~~the data ~~table~~queue contains an available location; and

upon a determination that the data ~~table~~queue contains an available location, performing the substeps of:

storing the one or more requests in the data ~~table~~queue; and

storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the one or more requests in the data ~~table~~queue.

2. (Currently Amended) A method of providing requests from one or more requestors to a first destination and a second destination, the method comprising the steps of:

providing an age queue and a data queue;

receiving one or more requests;

determining whether ~~a~~the data ~~table~~queue contains an available location;

upon a determination that the data ~~table~~queue contains an available location, performing the substeps of:

storing the one or more requests in the data ~~table~~queue; and

storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the corresponding element in the data ~~table~~queue;

determining a first oldest element in the age queue corresponding to a first request for the first destination;

submitting to the first destination the first request in the data ~~table~~queue identified by the tag included in the first oldest element;

determining a second oldest element in the age queue corresponding to a second request for the second destination; and

submitting to the second destination the second request in the data ~~table~~queue identified by the tag included in the second oldest element.

3. (Currently Amended) A method of providing requests from one or more requestors to two or more destinations, the method comprising the steps of:

providing an age queue and a data queue;

receiving one or more requests for at least one of two or more destinations;

storing the one or more requests in ~~a~~the data ~~table~~queue;

storing for each of the one or more requests an age queue element in ~~an~~the age queue, each age queue element comprising a tag that indicates the location of the corresponding request in the data ~~table~~queue and an indication from which of the two or more destinations the request is to be made;

determining for each destination the oldest age queue element; and

submitting from the data ~~table~~queue the request corresponding to the tag contained in the oldest age queue element.

4. (Currently Amended) An apparatus for queuing requests from one or more requestors to two or more destinations, the apparatus comprising:

an age queue;

a data queue;

means for receiving one or more requests for one or more of the two or more destinations;

means for determining whether ~~a~~the data ~~table~~queue contains an available location; and

means for, upon a determination that the data ~~table~~queue contains an available location, storing the one or more requests in the data ~~table~~queue, and storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the one or more requests in the data ~~table~~queue.

5. (Currently Amended) An apparatus for providing requests from one or more requestors to a first destination and a second destination, the apparatus comprising:

an age queue;

a data queue;

means for receiving one or more requests;

means for determining whether ~~a~~the data ~~table~~queue contains an available location;

means for, upon a determination that the data ~~table~~queue contains an available location, storing the one or more requests in the data ~~table~~queue, and storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the corresponding element in the data ~~table~~queue;

means for determining a first oldest element in the age queue corresponding to a first request for the first destination;

means for submitting to the first destination the first request in the data ~~table~~queue identified by the tag included in the first oldest element;

means for determining a second oldest element in the age queue corresponding to a second request for the second destination; and

means for submitting to the second destination the second request in the data ~~table~~queue identified by the tag included in the second oldest element.

6. (Currently Amended) An apparatus for providing requests from one or more requestors to two or more destinations, the apparatus comprising:

an age queue;

a data queue;

means for receiving one or more requests for at least one of two or more destinations;

means for storing the one or more requests in ~~a~~the data ~~table~~queue;

means for storing for each of the one or more requests an age queue element in ~~an~~the age queue, each age queue element comprising a tag that indicates the location of the corresponding request in the data ~~table~~queue and an indication from which of the two or more destinations the request is to be made;

means for determining for each destination the oldest age queue element; and

means for submitting from the data ~~table~~queue the request corresponding to the tag contained in the oldest age queue element.

7. (Currently Amended) A computer program product for queuing requests from one or more requestors to two or more destinations, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for providing an age queue and a data queue;

computer program code for receiving one or more requests for one or more of the two or more destinations;

computer program code for determining whether ~~a~~the data ~~table~~queue contains an available location; and

computer program code for, upon a determination that the data ~~table~~queue contains an available location, storing the one or more requests in the data ~~table~~queue, and storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the one or more requests in the data ~~table~~queue.

8. (Currently Amended) A computer program product for providing requests from one or more requestors to a first destination and a second destination, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for providing an age queue and a data queue;

computer program code for receiving one or more requests;

computer program code for determining whether ~~a~~the data ~~table~~queue contains an available location;

computer program code for, upon a determination that the data ~~table~~queue contains an available location, storing the one or more requests in the data ~~table~~queue, and storing identifying information in an age queue element of ~~an~~the age queue, the identifying information comprising a tag that identifies the location of the corresponding element in the data ~~table~~queue;

computer program code for determining a first oldest element in the age queue corresponding to a first request for the first destination;

computer program code for submitting to the first destination the first request in the data ~~table~~queue identified by the tag included in the first oldest element;

computer program code for determining a second oldest element in the age queue corresponding to a second request for the second destination; and

computer program code for submitting to the second destination the second request in the data ~~table~~queue identified by the tag included in the second oldest element.

9. (Currently Amended) A computer program product for providing requests from one or more requestors to two or more destinations, the computer program product having a medium with a computer program embodied thereon, the computer program comprising:

computer code for providing an age queue and a data queue;

computer program code for receiving one or more requests for at least one of two or more destinations;

computer program code for storing the one or more requests in ~~a~~the data ~~table~~queue;

computer program code for storing for each of the one or more requests an age queue element in ~~an~~the age queue, each age queue element comprising a tag that indicates the location of the corresponding request in the data ~~table~~queue and an indication from which of the two or more destinations the request is to be made;

computer program code for determining for each destination the oldest age queue element;
and

computer program code for submitting from the data ~~table~~queue the request corresponding to the tag contained in the oldest age queue element.